IN THE CLAIMS

Please amend the claims as follows:

Claims 1-63 (Canceled).

Claim 64 (Currently Amended): A method for production of a finished component of a machine from an original component having a defect, comprising:

removing a portion defining the defect to form a recess portion; and

depositing a <u>porous</u> deposition <u>via electric spark discharge</u> from a first electrode <u>in an electric spark machine</u> to fill the recess portion with the <u>porous</u> deposition by positioning the recess portion opposed to the first electrode in <u>an the</u> electric spark machine-and processing the <u>original component with electric spark machining</u>; and

densifying the porous deposition via electric spark discharge from a second electrode in the electric spark machine by positioning the porous deposition opposed to the second electrode in the electric spark machine to form a high-density thin film.

Claim 65 (Currently Amended): The method of claim 64, wherein the removing is carried out <u>via electric spark discharge from the second electrode in the electric spark</u>

<u>machine</u> by positioning the portion <u>defining the defect</u> opposed to <u>a tool</u> <u>the second</u> electrode in the electric spark machine, and processing the original component with electric spark

<u>machining</u>.

Claim 66 (Currently Amended): The method of claim 64, further comprising:

machining the <u>porous</u> deposition to regulate a thickness such that the <u>porous</u>

deposition is shaped to a predetermined dimension before densifying the <u>porous</u> deposition.

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Claim 67 (Currently Amended): The method of claim 66, wherein the machining is carried out via electric spark discharge from the second electrode in the electric spark machine by positioning the porous deposition opposed to the tool second electrode in the electric spark machine. and processing the original component with electric spark machining.

Claim 68 (Canceled).

Claim 69 (Currently Amended): The method of claim 66-64, further comprising:

eoating depositing a hard thin film via electric spark discharge from a third electrode

in the electric spark machine on the machined deposition high-density thin film by

positioning the machined deposition high-density thin film opposed to a second the third

electrode in the electric spark machine, and processing the original component with electric

spark machining.

Claim 70 (Currently Amended): The method of claim 66, further comprising:

eoating depositing a hard thin film via electric spark discharge from an electrode of Si

in the electric spark machine on the machined deposition high-density thin film by

positioning the machined deposition high-density thin film opposed to an the electrode of Si

in the electric spark machine and processing the original component with and wherein the

electric spark machining machine in includes a process liquid including alkane hydrocarbon

hydrocarbons.

Claim 71 (Currently Amended): The method of claim 64, further comprising:

eoating a depositing an intermediary porous thin film via electric spark discharge

from the first electrode in the electric spark machine adhered on the removed recess portion

by positioning the <u>removed recess</u> portion opposed to the first electrode in the electric spark machine <u>after removing the portion defining the defect but before depositing the porous</u>

<u>deposition and processing the original component with electric spark machining</u>; and

densifying the <u>intermediary porous</u> thin film <u>via electric spark discharge from the</u>

<u>second electrode in the electric spark machine</u> by positioning the <u>intermediary porous</u> thin

film opposed to <u>a tool the second</u> electrode in the electric spark machine <u>to form an</u>

<u>intermediary high-density thin film.</u> and processing the original component with electric spark machining.

Claim 72 (Currently Amended): The method of claim 64, wherein the first second electrode consists essentially of one selected from the group consisting of graphite, tungsten alloys, and copper alloys.

Claim 73 (Currently Amended): The method of claim 64, further comprising:

shaping wherein the first electrode to have includes a tip end portion larger than the removed portion defining the defect by an amount of 0.02mm or more and 0.3mm or less.

Claim 74 (Previously Presented): The method of claim 66, further comprising: peening the machined deposition.

Claim 75 (Currently Amended): The method of claim 64, further comprising: forming a main body of the original component by casting or forming forging.

Claim 76 (Previously Presented): A machine component produced by the method of claim 64.

Claim 77 (Previously Presented): A gas turbine engine comprising a machine component produced by the method of claim 64.

Claim 78 (Currently Amended): A method for production of a finished component of a machine from an original component having a defect, comprising:

removing a portion defining the defect to form a recess portion;

depositing an intermediary porous thin film via electric spark discharge from a first electrode in an electric spark machine on the recess portion by positioning the recess portion opposed to the first electrode in an electric spark machine;

densifying the intermediary porous thin film via electric spark discharge from a second electrode in the electric spark machine by positioning the intermediary porous thin film opposed to the second electrode in the electric spark machine to form an intermediary high-density thin film;

depositing a porous deposition via electric spark discharge from [[a]] the first electrode in a electric spark machine on the intermediary high-density thin film to fill the recess portion with the deposition by positioning the recess portion intermediary high-density thin film opposed to the first electrode in [[an]] the electric spark machine and processing the original component with electric spark machining; and

eoating depositing a hard thin film via electric spark discharge from an electrode of Si in the electric spark machine on the machined porous deposition by positioning the porous deposition opposed to an the electrode of Si in the electric spark machine, and processing the original component with wherein the electric spark machining in machine includes a processing liquid including alkane hydrocarbon hyrdocarbons.

Claim 79 (Currently Amended): The method of claim 78, wherein the removing is carried out via electric spark discharge from the second electrode in the electric spark machine by positioning the portion defining the defect opposed to a tool the second electrode in the electric spark machine, and processing the original component with electric spark machining.

Claim 80 (Currently Amended): The method of claim 78, further comprising: machining the <u>porous</u> deposition to regulate a thickness such that the <u>porous</u> deposition is shaped to a predetermined dimension.

Claim 81 (Currently Amended): The method of claim 80, further comprising:

densifying the porous deposition via electric spark discharge from the second

electrode in the electric spark machine by positioning the porous deposition opposed to the

tool second electrode in the electric spark machine to form high-density thin film. and

processing the original component with electric spark machining.

Claim 82 (Canceled).

Claim 83 (Previously Presented): The method of claim 80, further comprising: peening the machined deposition.

Claim 84 (Currently Amended): An electric spark machine, comprising:

a table configured to be controllably movable in any direction on a plane, the table including a jig configured to support a workpiece;

a processing head configured to be controllably movable with respect to the table in a direction perpendicular to the plane, the processing head including a first holder to support a first deposition electrode for deposition and a second holder to support a tool melting electrode for machining; and

an electric power source to supply electricity to the processing head so as to generate electric <u>spark</u> discharge between <u>the workpiece and both</u> any of the first <u>deposition</u> electrode and the <u>tool</u> melting electrode, and the workpiece.

Claim 85 (Currently Amended): An electric spark machine, comprising:

a table including a jig configured to support a workpiece;

a processing head configured to be controllably movable with respect to the table in both vertical and horizontal directions, the processing head including a first holder to support a first deposition electrode and a second holder to support a melting electrode, the processing head being configured to detachably support a holder to support an electrode the first holder and the second holder;

a replacement unit configured to selectively attach any of a first holder and a second holder to the processing head and exchange the attached holder for the other holder; and

an electric power source to supply electricity to the processing head so as to generate electric <u>spark</u> discharge between the <u>attached electrode</u> and the workpiece <u>and both the first</u> deposition electrode and the melting electrode.